

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-038678

(43)Date of publication of application : 19.02.1988

(51)Int.Cl.

F02M 25/06

(21)Application number : 61-184026

(71)Applicant : NISSAN MOTOR CO LTD

(22)Date of filing : 05.08.1986

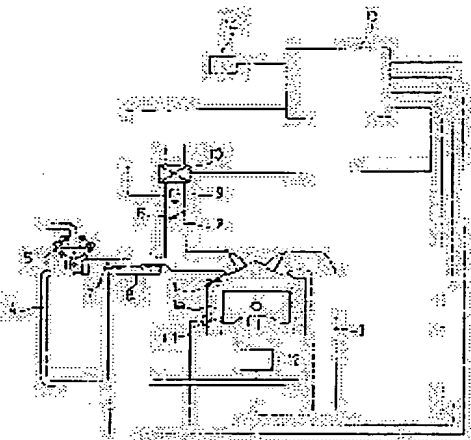
(72)Inventor : HISATOMI MASAHIRO
ARAMAKI TAKASHI
NAKAJIMA MASATAKA

(54) FAILURE SENSING UNIT FOR EXHAUST GAS RETURN DIAGNOSIS DEVICE

(57)Abstract:

PURPOSE: To prevent a faulty judgement, by prohibiting discrimination of a failure until warming up of an engine is completed when a failure of an exhaust gas return device is discriminated based on a temperature sensed by a temperature sensor disposed in an exhaust gas return passage.

CONSTITUTION: A temperature sensor 7 using a thermistor is disposed downstream of an exhaust gas return valve 5 of an exhaust gas return passage 4. When a temperature sensed by a temperature sensor 7 is less than a prescribed value regardless of that it is an operating region wherein exhaust gas is returned based on values sensed by an air flow meter 10 and a crank angle sensor 12, a control circuit 13 lights a warning lamp 14 judging that an exhaust gas return device fails. Further, the diagnosis of a failure is prohibited based on a value sensed by a water temperature sensor 11 when a temperature at start is less than a first temperature which is so low that water is frozen in the vicinity of the temperature sensor 7. Then, the diagnosis of a failure is effected only when a water temperature at start is greater than a first temperature and when warming up of an engine has been completed it is greater than a second temperature.



BEST AVAILABLE COPY

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office